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**STATE OF CALIFORNIA**  
**WATER RESOURCES CONTROL BOARD**  
**DIVISION OF DRINKING WATER**

**TO:** United States Forest Service – Lake Isabella Office Water System  
Water System No. 1502685

**Attn:** Peter Landucci, Environmental Engineer  
United States Forest Service (USFS)  
1839 S. Newcomb Street  
Porterville, CA 93257

**CERTIFIED MAIL**

**CITATION FOR VIOLATION OF CALIFORNIA CODE OF REGULATIONS,  
TITLE 22, SECTION 64426.1(b)(2) - WATER SYSTEM NO. 1502685**

**July and September 2015**

**C I T A T I O N N O. 03-19-16C-008**

**Issued on January 22, 2016**

**STATEMENT OF FACTS**

United States Forest Service (USFS) – Lake Isabella Office Water System (hereinafter Water System) is classified as a transient non-community water system and mainly serves a transient population of approximately 48 persons through five service connections. The Water System has one active source of supply, Well 02 (Primary Station Code: 1502685-002), a 24,000-gallon storage tank and distribution system. No treatment is provided to the well water. The Water System operates under the authority of Permit No. 03-12-94P-095, issued on November 10, 1994, by the California Department of Health Services. Effective July 1, 2014, regulatory

1 jurisdiction of the Water System was transferred to the State Water Resources Control  
2 Board (hereinafter "State Board"), Division of Drinking Water.

3 Section 116650 of the California Health and Safety Code authorizes the issuance of a  
4 citation to a public water system for violation of the California Safe Drinking Water  
5 Act (Health and Safety Code, Division 104, Part 12, Chapter 4, commencing with  
6 Section 116270) (hereinafter "California SDWA") or any regulation, standard, permit  
7 or order issued or adopted thereunder.  
8

9 The State Water Resources Control Board, acting by and through its Division of  
10 Drinking Water and the Deputy Director for the Division of Drinking Water hereby  
11 issues a citation to the USFS – Lake Isabella Office Water System (mailing address:  
12 1839 S. Newcomb Street, Porterville, CA 93257) for violation of the California Code  
13 of Regulations (CCR), Title 22, Section 64426, subsection (b)(2).  
14

- 15 • The Water System is required to collect one (1) routine bacteriological sample  
16 per month.
- 17 • One (1) routine bacteriological quality sample collected on July 8, 2015, from  
18 the distribution system, tested positive for total coliform bacteria.
- 19 • Two (2) repeat samples collected on July 13, 2015, from the distribution  
20 system (analyzed by the Most Probable Number (MPN) method) tested  
21 negative for total coliform bacteria.
- 22 • One (1) repeat sample (also counted towards the Ground Water Rule's  
23 triggered source sampling requirement) collected on July 13, 2015, from Well  
24 01, showed the presence of total coliform bacteria (analyzed by the MPN  
25 method).
- 26 • No further bacteriological sampling was conducted in July 2015.  
27

- 1 • **USFS – Lake Isabella Office Water System failed the total coliform**  
2 **maximum contaminant level (MCL) for July 2015 [Section 64426.1(b)(2),**  
3 ***Authorities*].**
- 4 • **USFS – Lake Isabella Office Water System failed to collect the required**  
5 **number of repeat samples, following a routine total coliform positive**  
6 **sample. Only three (3) repeat samples were collected in July 2015, instead**  
7 **of the required four (4) repeat samples [Section 64424, *Authorities*].**
- 8 • None of the bacteriological quality samples collected in July 2015, from the  
9 distribution system or the system well, tested positive for *E.coli* bacteria.
- 10 • On August 13, 2015, Peter Landucci, Environmental Engineer with the Water  
11 System, notified the State Board that the Water System failed the total coliform  
12 MCL for July 2015.
- 13 • **USFS – Lake Isabella Office Water System failed to notify the State Board**  
14 **of the total coliform MCL violation within 24 hours [Section 64426.1(c),**  
15 ***Authorities*].**
- 16 • Due to non-receipt of the final results for the bacteriological quality samples  
17 collected on July 13, 2015, the State Board staff made requests for the final  
18 laboratory results and documentation of communication from the laboratory to  
19 the sampler about notification of the total coliform positive samples. These  
20 requests were made on October 12 and 13, 2015 by email, and October 14,  
21 2015, in a conference call between Peter Landucci and State Board staff. The  
22 State Board received copies of the final results on November 4, 2015.
- 23 • According to the email communication received on November 4, 2015, from  
24 Mr. Landucci, HS Aqua LLC (the Water System's the then contract sampler)  
25 notified the USFS on July 14, 2015, of the total coliform positive samples from  
26 July 13, 2015. Due to various reasons, the USFS terminated sampling contract  
27 with HS Aqua LLC, sometime in July 2015.

- 1 • From August 17, 2015 until August 21, 2015, the Water System provided  
2 emergency disinfection and flushing of Well 01, storage tank, and the  
3 distribution system to help clear bacteriological contamination.
- 4 • One (1) routine bacteriological sample collected on August 13, 2015, from the  
5 distribution system, tested negative for total coliform bacteria.
- 6 • Five (5) special bacteriological samples collected on August 17, 2015, from the  
7 distribution system, tested negative for total coliform bacteria.
- 8 • One (1) bacteriological sample collected on August 17, 2015, from the Well  
9 01, tested negative for total coliform bacteria.
- 10 • On August 14, 2015, public notice and *Certification of Completion of*  
11 *Notification* forms were emailed to the Water System, for the July 2015 total  
12 coliform MCL failure.
- 13 • On August 15, 2015, the State Board received signed and dated copies of the  
14 public notice and the *Certification of Completion of Public Notification* from  
15 the Water System. According to these documents, public notification was  
16 completed on August 14, 2015.
- 17 • On August 14, 2015, an investigation report template was emailed to the Water  
18 System, for the July 2015 total coliform MCL failure.
- 19 • **To date, the State Board has not received a completed investigation**  
20 **report, in response to the July 2015 total coliform MCL failure, from the**  
21 **Water System. [Section 64426(b)(2), *Authorities*].**
- 22 • Four (4) routine bacteriological samples collected on August 26, 2015, from  
23 the distribution system, tested negative for total coliform bacteria.
- 24 • One (1) routine bacteriological quality sample collected on September 16,  
25 2015, from the distribution system, tested positive for total coliform bacteria.
- 26
- 27

- 1 • Four (4) repeat samples collected on September 21, 2015, from the distribution  
2 system (including one sample from the storage tank) tested negative for total  
3 coliform bacteria.
- 4 • One (1) repeat sample (also counted towards the Ground Water Rule's  
5 triggered source sampling requirement) collected on September 21, 2015, from  
6 Well 01, tested positive for total coliform bacteria.
- 7 • **USFS – Lake Isabella Office Water System failed the total coliform MCL  
8 for September 2015 [Section 64426.1(b)(2), *Authorities*].**
- 9 • No further bacteriological sampling was conducted in September 2015.
- 10 • None of the bacteriological quality samples collected in September 2015, from  
11 the distribution system or the system well, tested positive for *E.coli* bacteria.
- 12 • On September 25, 2015, Dan Sackett of skOO'kum h2o monitoring, inc.  
13 (interim sampler), notified the State Board by email that the Water System  
14 failed the total coliform MCL for September 2015.
- 15 • On September 28, 2015 emergency disinfection and flushing of Well 01, the  
16 Water System's storage tank, and the distribution system was provided.
- 17 • On October 19, 2015, Peter Landucci of the Water system informed the State  
18 Board by email that the USFS had contracted a new sampling company,  
19 Cranmer Engineering.
- 20 • Five (5) routine bacteriological quality samples collected on October 23, 2015,  
21 from the distribution system, tested negative for total coliform bacteria.
- 22 • On November 3, 2015, public notice and *Certification of Completion of*  
23 *Notification* forms were emailed to the Water System, for the September 2015  
24 total coliform MCL failure.
- 25 • **To date, the State Board has not received signed and dated copies of the**  
26 **public notice and the *Certification of Completion of Public Notification* (for**  
27



the September 2015 total coliform MCL failure) from the Water System [Section 64426.1(c), Section 64463.4(b), and Section 64469(d), *Authorities*].

- On November 3, 2015, an investigation report template was emailed to the Water System, for the September 2015 total coliform MCL failure.
- To date, the State Board has not received a completed investigation report, in response to the September 2015 total coliform MCL failure, from the Water System. [Section 64426(b)(2), *Authorities*]
- One (1) routine bacteriological sample collected on November 5, 2015, from the distribution system, tested negative for total coliform bacteria.
- One (1) routine bacteriological sample collected on December 3, 2015, from the distribution system, tested negative for total coliform bacteria.
- Results of all bacteriological samples collected from January 2014 to December, are summarized in **Attachment A**.
- It is noted that the Water System failed the total coliform MCL for July 2014, July 2015, and September 2015, thereby having three total coliform MCL violations in a 15-month period. Another MCL failure before July 2016 will require installation of mandatory continuous chlorination treatment. At this time, the State Board recommends installation of continuous chlorination treatment. Before installing any treatment, the Water System must contact the State Board to obtain the permit amendment application form and guidance from the State Board.

### **AUTHORITIES**

Section 116577 of the CHSC, states in relevant part:

"(a) Each public water system shall reimburse the State Board for the actual costs incurred by the State Board for any of the following enforcement activities related to that water system:

- (1) Preparing, issuing, and monitoring compliance with, an order or citation.
- (2) Preparing, and issuing public notification

...

(b) The State Board shall submit an invoice for these enforcement costs to the public water system that requires payment prior to September 1 of the fiscal year following the fiscal year in which the costs were incurred. The invoice shall indicate the total hours expended, the reasons for the expenditure, and



the hourly cost rate of the State Board. The costs set forth in the invoice shall not exceed the total actual costs to the State Board of the enforcement activities specified in this section.”...

**Section 116650 of the CHSC, states in relevant part:**

“(a) If the State Board determines that a public water system is in violation of this chapter or any regulation, permit, standard, citation, or order issued or adopted thereunder, the State Board may issue a citation to the public water system. The citation shall be served upon the public water system personally or by certified mail. Service shall be deemed effective as of the date of personal service or the date of receipt of the certified mail. If a person to whom a citation is directed refuses to accept delivery of the certified mail, the date of service shall be deemed to be the date of mailing.

(b) Each citation shall be in writing and shall describe the nature of the violation or violations, including a reference to the statutory provision, standard, order, citation, permit, or regulation alleged to have been violated.

(c) A citation may specify a date for elimination or correction of the condition constituting the violation.

(d) A citation may include the assessment of a penalty as specified in subdivision (e).

(e) The department may assess a penalty in an amount not to exceed one thousand dollars (\$1,000) per day for each day that a violation occurred, and for each day that a violation continues to occur. A separate penalty may be assessed for each violation.”

**Section 116655 of the CHSC, states in relevant part:**

“(a) Whenever the State Board determines that any person has violated or is violating this chapter, or any permit, regulation, or standard issued or adopted pursuant to this chapter, the director may issue an order doing any of the following:

- (1) Directing compliance forthwith.
- (2) Directing compliance in accordance with a time schedule set by the State Board.
- (3) Directing that appropriate preventive action be taken in the case of a threatened violation.

(b) An order issued pursuant to this section may include, but shall not be limited to, any or all of the following requirements:

- (1) That the existing plant, works, or system be repaired, altered, or added to.
- (2) That purification or treatment works be installed.
- (3) That the source of the water supply be changed.
- (4) That no additional service connection be made to the system.
- (5) That the water supply, the plant, or the system be monitored.
- (6) That a report on the condition and operation of the plant, works, system, or water supply be submitted to the State Board.”

**California Code of Regulations (hereinafter, CCR), Title 22, Section 64423, Table 64423-A establishes the minimum routine sampling requirements, and states in relevant part:**

| <i>Monthly Population Served</i> | <i>Service Connections</i> | <i>Minimum Number of Samples</i> |
|----------------------------------|----------------------------|----------------------------------|
| 25 to 1000                       | 15 to 400                  | 1 per month                      |
| 1,001 to 2,500                   | 401 to 890                 | 2 per month                      |
| 2,501 to 3,300                   | 891 to 1,180               | 3 per month                      |
| 3,301 to 4,100                   | 1,181 to 1,460             | 4 per month                      |
| 4,101 to 4,900                   | 1,461 to 1,750             | 5 per month                      |
| 4,901 to 5,800                   | 1,751 to 2,100             | 6 per month                      |
| 5,801 to 6,700                   | 2,101 to 2,400             | 7 per month                      |
| 6,701 to 7,600                   | 2,401 to 2,700             | 2 per week                       |
| 7,601 to 12,900                  | 2,701 to 4,600             | 3 per week                       |
| 12,901 to 17,200                 | 4,601 to 6,100             | 4 per week                       |
| 17,201 to 21,500                 | 6,101 to 7,700             | 5 per week                       |
| 21,501 to 25,000                 | 7,701 to 8,900             | 6 per week                       |
| 25,001 to 33,000                 | 8,901 to 11,800            | 8 per week                       |
| 33,001 to 41,000                 | 11,801 to 14,600           | 10 per week                      |
| 41,001 to 50,000                 | 14,601 to 17,900           | 12 per week                      |



| <i>Monthly Population Served</i> | <i>Service Connections</i> | <i>Minimum Number of Samples</i> |
|----------------------------------|----------------------------|----------------------------------|
| 50,001 to 59,000                 | 17,901 to 21,100           | 15 per week                      |

CCR, Title 22, Section 64426 establishes the significant rise in bacteriological count and states in relevant part:

- (a) Any of the following criteria shall indicate a possible significant rise in bacterial count:
- (1) A system collecting at least 40 samples per month has a total coliform-positive routine sample followed by two total coliform-positive samples in the repeat sample set;
  - (2) A system has a sample which is positive for fecal coliform or E. coli; or
  - (3) A system fails the total coliform Maximum Contaminant Level (MCL) as defined in 64426.1.
- (b) When the coliform levels specified in subsection (a) are reached or exceeded, the water supplier shall:
- (2) Submit to the State Board information on the current status of physical works and operating procedures which may have caused the elevated bacteriological findings, or any information on community illness suspected of being waterborne. This shall include, but not be limited to:
    - (A) Current operating procedures that are or could potentially be related to the increase in bacterial count;
    - (B) Any interruptions in the treatment process;
    - (C) System pressure loss to less than 5 psi;
    - (D) Vandalism and/or unauthorized access to facilities;
    - (E) Physical evidence indicating bacteriological contamination of facilities;
    - (F) Analytical results of any additional samples collected, including source samples;
    - (G) Community illness suspected of being waterborne; and
    - (H) Records of the investigation and any action taken.”...

CCR, Title 22, Section 64426.1 establishes the total coliform maximum contaminant level and states in relevant part:

- (a) Results of all samples collected in a calendar month pursuant to Sections 64423, 64424, and 64425 that are not invalidated by the State Board or the laboratory shall be included in determining compliance with the total coliform MCL. Special purpose samples such as those listed in 64421(b) and samples collected by the water supplier during special investigations shall not be used to determine compliance with the total coliform MCL.
- (b) A public water system is in violation of the total coliform MCL when any of the following occurs:
- (1) For a public water system which collects at least 40 samples per month, more than 5.0 percent of the samples collected during any month are total coliform-positive; or
  - (2) For a public water system with collects fewer than 40 samples per month, more than one sample collected during any month is total coliform-positive; or
  - (3) Any repeat sample is fecal coliform-positive or E. coli-positive; or
  - (4) Any repeat sample following a fecal coliform-positive or E. coli-positive routine sample is total coliform-positive.
- (c) If a public water system is not in compliance with paragraphs (b)(1) through (4), during any month in which it supplies water to the public, the water supplier shall notify the State Board by the end of the business day on which this is determined, unless the determination occurs after the State Board office is closed, in which case the supplier shall notify the State Board within 24 hours of the determination. The water supplier shall also notify the consumers served by the water system. A Tier 2 Public Notice shall be given for violations of paragraphs (b)(1) or (2), pursuant to section 64463.4. A Tier 1 Public Notice shall be given for violations of paragraphs (b)(3) or (4), pursuant to section 64463.1.”

CCR, Title 22, Section 64463.4 establishes the Tier 2 public notification requirements and states in relevant part:

- (a) A water system shall give public notice pursuant to this section if any of the following occurs:
- (1) Any violation of the MCL, MRDL, and treatment technique requirements, except:





(A) Where a Tier 1 public notice is required under section 64463.1; or

(B) Where the State Board determines that a Tier 1 public notice is required, based on potential health impacts and persistence of the violations;

(2) All violations of the monitoring and testing procedure requirements in sections 64421 through 64426.1, article 3 (Primary Standards – Bacteriological Quality), for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations;

(3) Other violations of the monitoring and testing procedure requirements in this chapter, and chapters 15.5, 17 and 17.5, for which the State Board determines that a Tier 2 rather than a Tier 3 public notice is required, based on potential health impacts and persistence of the violations; or

(4) Failure to comply with the terms and conditions of any variance or exemption in place.

(b) A water system shall give the notice as soon as possible within 30 days after it learns of a violation or occurrence specified in subsection (a), except that the water system may request an extension of up to 60 days for providing the notice. This extension would be subject to the State Board's written approval based on the violation or occurrence having been resolved and the State Board's determination that public health and welfare would in no way be adversely affected. In addition, the water system shall:

(1) Maintain posted notices in place for as long as the violation or occurrence continues, but in no case less than seven days;

(2) Repeat the notice every three months as long as the violation or occurrence continues. Subject to the State Board's written approval based on its determination that public health would in no way be adversely affected, the water system may be allowed to notice less frequently but in no case less than once per year. No allowance for reduced frequency of notice shall be given in the case of a total coliform MCL violation or violation of a Chapter 17 treatment technique requirement; and

(c) A water system shall deliver the notice, in a manner designed to reach persons served, within the required time period as follows:

(1) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, community water systems shall give public notice by:

(A) Mail or direct delivery to each customer receiving a bill including those that provide their drinking water to others (e.g., schools or school systems, apartment building owners, or large private employers), and other service connections to which water is delivered by the water system; and

(B) Use of one or more of the following methods to reach persons not likely to be reached by a mailing or direct delivery (renters, university students, nursing home patients, prison inmates, etc.):

1. Publication in a local newspaper;

2. Posting in conspicuous public places served by the water system, or on the Internet;

or

3. Delivery to community organizations.

(2) Unless otherwise directed by the State Board in writing based on its assessment of the violation or occurrence and the potential for adverse effects on public health and welfare, noncommunity water systems shall give the public notice by:

(A) Posting in conspicuous locations throughout the area served by the water system; and

(B) Using one or more of the following methods to reach persons not likely to be reached by a public posting:

1. Publication in a local newspaper or newsletter distributed to customers;

2. E-mail message to employees or students;

3. Posting on the Internet or intranet; or

4. Direct delivery to each customer.

CCR, Title 22, Section 64469(d) establishes the reporting requirements and states in relevant part:

“(d) Within 10 days of giving initial or repeat public notice pursuant to Article 18 of this Chapter, except for notice given under section 64463.7(d), each water system shall submit a certification to the State Board that it has done so, along with a representative copy of each type of public notice given.”



**DETERMINATIONS**

Based upon the above Statement of Facts and Authorities, the State Board determines that the USFS – Lake Isabella Office Water System has violated the following:

1. CCR, Title 22, Section 64426.1(b)(2); Specifically, the Water System violated the total coliform MCL for the months of July and September 2015, when more than one sample during the two above-mentioned months, tested positive for total coliform bacteria.
2. CCR, Title 22, Section 64426.1 (c); Specifically, the Water System failed to notify the State Board within 24 hours of notification by laboratory of the total coliform MCL violation for the month of July 2015.
3. CCR, Title 22, Section 64424; Specifically, the Water System failed to collect the correct number of repeat samples, in response to a routine total coliform positive sample collected on July 8, 2015.
4. CCR, Title 22, Section 64463.4(b) and Section 64469(d); Specifically, the Water System failed to submit signed and dated copies of the public notice and the *Certification of Completion of Public Notification* (for the September 2015 total coliform MCL failure) to the State Board.
5. CCR, Title 22, Section 64426(b)(2); Specifically, the Water System failed to submit investigation reports (for the total coliform MCL failures for July and September 2015) to the State Board.

The above violations are classified as non-continuing violations.



**DIRECTIVES**

USFS – Lake Isabella Office Work Center Water System is hereby directed to take the following actions:

1. Cease and desist from failing to comply with Section 116555(a) of the California Health and Safety Code (CHSC) and Sections 64424, 64426(b)(2), 64426.1(b)(2), 64426.1(c), 64463.4(b), and 64469(d), of Title 22, California Code of Regulations.
2. In the future, the Water System shall notify the State Board within 24 hours of determination of a total coliform MCL violation.
3. In the future, the Water System shall collect the correct number of repeat samples in response to a routine total coliform positive sample.
4. By **February 5, 2016**, the Water System shall complete and submit the attached Investigation Report to the State Board that describes each incident and all corrective actions taken, and the results of the investigations. A separate Investigation Report will be submitted for the July 2015 total coliform MCL failure and the September 2015 total coliform MCL failure. A template for completing the investigation reports is provided as **Attachment B**.
5. By **February 5, 2016**, the Water System shall submit signed and dated copies of the public notice and the *Certification of Completion of Public Notification* (for the September 2015 total coliform MCL failure) to the State Board.
6. The Water System shall contact the State Board and obtain approval before installing any treatment.



- 1 7. Any document requested by the citation shall be submitted to the following  
2 address and/or fax number:

3 Jaswinder S. Dhaliwal, P.E., Senior Sanitary Engineer  
4 State Water Resources Control Board  
5 4925 Commerce Drive, Suite 120  
6 Bakersfield, CA 93309  
7 Fax: (661) 335-7316

- 8 8. The Water System shall reimburse the State Board, in accordance with an  
9 invoice that shall be provided to the Water System, the costs for enforcement  
10 activities, and such reimbursement shall be made prior to September 1 (or by a  
11 different date if specified by the State Board) of the fiscal year following the  
12 fiscal year in which such costs are incurred as described in CHSC Sections  
13 116577(a)(1-2) and 116577(b).

#### 14 **FURTHER ENFORCEMENT ACTIONS**

15 Section 116270, Chapter 4, Part 12, Division 104 of the CHSC authorizes the State  
16 Board to: issue additional citations with assessment of penalties if a public water  
17 system continues to fail or correct a violation identified in a citation; take action to  
18 suspend or revoke a permit that has been issued to a public water system if the system  
19 has violated applicable law or regulations or has failed to comply with orders of the  
20 State Board; and petition the superior court to take various enforcement measures  
21 against a public water system that has failed to comply with orders of the State Board.  
22 The State Board does not waive any further enforcement action by issuance of this  
23 citation.

#### 24 **PARTIES BOUND**

25 This citation shall apply to and be binding upon USFS – Lake Isabella Office Water  
26 System, its officers, directors, agents, employees, contractors, successors, and  
27 assignees.



**SEVERABILITY**

The directives of this citation are severable, and USFS – Lake Isabella Office Water System shall comply with each and every provision thereof, notwithstanding the effectiveness of any other provision.

**CIVIL PENALTIES**

Section 116650, subsections (d) and (e) of the CHSC allow for the assessment of a civil penalty for failure to comply with the requirements of the Safe Drinking Water Act. Failure to comply with any provision of this Citation may result in the State Board imposing an administrative penalty in an amount not to exceed \$1000 (one thousand dollars) per day as of the date of violation of any provision of this Citation.

Jan. 22, 2016

Date

Jaswinder S. Dhaliwal

Jaswinder S. Dhaliwal, P.E.

Senior Sanitary Engineer

Drinking Water Field Operations Branch

Certified Mail No. 7015 0640 0006 0208 6542

**ATTACHMENT**

Attachment A: Summary of Bacteriological Samples Collected from January 2014 – December 2015

Attachment B: Investigation Report Template

CC: Kern County Environmental Health Services Department (w/o attachment)  
Cranmer Engineering, Inc., Contract Sampler (via email)

JSD/dc



# Attachment A

# ***USFS - Lake Isabella Office Water System***

**1502685**

***Distribution System Freq: 1/M***

| <b><i>Sample Date</i></b> | <b><i>Time</i></b> | <b><i>Location</i></b> | <b><i>T Coli</i></b> | <b><i>E Coli</i></b> | <b><i>F Coli</i></b> | <b><i>Type</i></b> | <b><i>Cl2</i></b> | <b><i>Violation</i></b> | <b><i>Comment</i></b>    |
|---------------------------|--------------------|------------------------|----------------------|----------------------|----------------------|--------------------|-------------------|-------------------------|--------------------------|
| 1/9/2014                  | 11:05              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 2/5/2014                  | 11:06              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 3/5/2014                  | 11:51              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 4/9/2014                  | 14:36              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 5/7/2014                  | 12:52              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 6/4/2014                  | 12:10              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 7/10/2014                 | 11:23              | 1ROU                   | P                    | A                    |                      | Routine            |                   |                         |                          |
| 7/14/2014                 | 15:30              | 1REP1                  | A                    | A                    |                      | Repeat             |                   |                         |                          |
| 7/14/2014                 | 15:45              | 1REP2                  | P                    | A                    |                      | Repeat             |                   | MCL                     | Cit 03-19-14C-021 Issued |
| 7/14/2014                 | 15:51              | 1REP3                  | P                    | A                    |                      | Repeat             |                   |                         |                          |
| 7/14/2014                 | 16:00              | STORAGE TANK           | A                    | A                    |                      | Repeat             |                   |                         |                          |
| 7/30/2014                 | 12:05              | 1ROU                   | A                    | A                    |                      | Other              |                   |                         |                          |
| 7/30/2014                 | 12:09              | 4ROU                   | A                    | A                    |                      | Other              |                   |                         |                          |
| 7/30/2014                 | 12:15              | 3ROU                   | A                    | A                    |                      | Other              |                   |                         |                          |
| 7/30/2014                 | 12:22              | 5ROU                   | A                    | A                    |                      | Other              |                   |                         |                          |
| 7/30/2014                 | 12:35              | STORAGE TANK           | A                    | A                    |                      | Other              |                   |                         |                          |
| 7/30/2014                 | 12:50              | 2ROU                   | A                    | A                    |                      | Other              |                   |                         |                          |
| 8/6/2014                  | 13:19              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 8/6/2014                  | 13:24              | 4ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 8/6/2014                  | 13:30              | 3ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 8/6/2014                  | 13:34              | 2ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 8/6/2014                  | 13:50              | 5ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 9/4/2014                  | 13:20              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 10/8/2014                 | 12:32              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 11/13/2014                | 11:06              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 12/3/2014                 | 12:47              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 1/7/2015                  | 12:31              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 2/4/2015                  | 12:33              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 3/4/2015                  | 11:57              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 4/9/2015                  | 11:55              | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 5/5/2015                  |                    | 1ROU                   | A                    | A                    |                      | Routine            |                   |                         |                          |
| 6/3/2015                  | 18:20              | Lake Isabella          | A                    | A                    |                      | Routine            |                   |                         |                          |
| 7/8/2015                  | 19:00              | Lake Isabella HQ       | P                    | A                    |                      | Routine            |                   | MCL                     | Cit 03-19-16C-008 Issued |

| <i>Sample Date</i> | <i>Time</i> | <i>Location</i>    | <i>T Coli</i> | <i>E Coli</i> | <i>F Coli</i> | <i>Type</i> | <i>Cl2</i> | <i>Violation</i> | <i>Comment</i>           |
|--------------------|-------------|--------------------|---------------|---------------|---------------|-------------|------------|------------------|--------------------------|
| 7/13/2015          | 13:10       | Lake Isabella HQ   | <1.0          | <1.0          |               | Repeat      |            |                  |                          |
| 7/13/2015          | 13:15       | Lake Isabella Offi | <1.0          | <1.0          |               | Repeat      |            |                  |                          |
| 8/13/2015          | 10:00       | 1ROU               | A             | A             |               | Routine     |            |                  |                          |
| 8/17/2015          | 14:32       | 2ROU               | A             | A             |               | Other       |            |                  |                          |
| 8/17/2015          | 14:40       | 3ROU               | A             | A             |               | Other       |            |                  |                          |
| 8/17/2015          | 14:48       | 4ROU               | A             | A             |               | Other       |            |                  |                          |
| 8/17/2015          | 15:00       | 5ROU               | A             | A             |               | Other       |            |                  |                          |
| 8/17/2015          | 15:06       | 1ROU               | A             | A             |               | Other       |            |                  |                          |
| 8/17/2015          | 15:10       | STORAGE TANK       | A             | A             |               | Other       |            |                  |                          |
| 8/26/2015          | 17:23       | 5ROU               | A             | A             |               | Routine     |            |                  |                          |
| 8/26/2015          | 17:25       | 2ROU               | A             | A             |               | Routine     |            |                  |                          |
| 8/26/2015          | 17:30       | 4ROU               | A             | A             |               | Routine     |            |                  |                          |
| 8/26/2015          | 17:33       | 1ROU               | A             | A             |               | Routine     |            |                  |                          |
| 9/16/2015          | 15:45       | 1ROU               | P             | A             |               | Routine     |            | MCL              | Cit 03-19-16C-008 Issued |
| 9/21/2015          | 15:00       | 1REP1              | A             | A             |               | Repeat      |            |                  |                          |
| 9/21/2015          | 15:05       | 1REP2              | A             | A             |               | Repeat      |            |                  |                          |
| 9/21/2015          | 15:25       | 1REP3              | A             | A             |               | Repeat      |            |                  |                          |
| 9/21/2015          | 15:35       | STORAGE TANK       | A             | A             |               | Other       |            |                  |                          |
| 10/23/2015         | 19:17       | 1ROU               | A             | A             |               | Routine     |            |                  |                          |
| 10/23/2015         | 19:17       | 2ROU               | A             | A             |               | Routine     |            |                  |                          |
| 10/23/2015         | 19:17       | 3ROU               | A             | A             |               | Routine     |            |                  |                          |
| 10/23/2015         | 19:17       | 4ROU               | A             | A             |               | Routine     |            |                  |                          |
| 10/23/2015         | 19:17       | 5ROU               | A             | A             |               | Routine     |            |                  |                          |
| 11/5/2015          | 10:00       | 1ROU               | A             | A             |               | Routine     |            |                  |                          |
| 12/3/2015          | 10:00       | R4- Overlook Par   | A             | A             |               | Routine     |            |                  |                          |



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## ***USFS - Lake Isabella Office Water System***

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***1502685***

***Source Monitoring Freq:***

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| <b><i>Sample Date</i></b> | <b><i>Time</i></b> | <b><i>Source</i></b> | <b><i>T Coli</i></b> | <b><i>E Coli</i></b> | <b><i>F Coli</i></b> | <b><i>Violation</i></b> | <b><i>Comment</i></b> |
|---------------------------|--------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|-----------------------|
| 7/14/2014                 | 16:17              | WELL #1              | A                    | A                    |                      |                         |                       |
| 7/13/2015                 | 13:00              | WELL #1              | 2.0                  | <1.0                 |                      | MCL                     | GWR/Repeat Sample     |
| 8/17/2015                 | 15:23              | WELL #1              | A                    | A                    |                      |                         |                       |
| 9/21/2015                 | 14:48              | WELL #1              | P                    | A                    |                      | MCL                     | GWR/Repeat Sample     |

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## Attachment B

# POSITIVE TOTAL COLIFORM INVESTIGATION

## Simple Well with Pressure Tank Systems

This form is intended to assist public water systems in completing the investigation required by the California Department of Public Health (Section 64426(b) of Title 22, California Code of Regulations) and may be modified to take into account conditions unique to the system.

### ADMINISTRATIVE INFORMATION

|  |  |
|--|--|
| PIPS/ISSUE NUMBER:                                       |  |
| Wellhead #   |  |
| Operator in Responsible Charge (ORC)                     |  |
| Person that collected TC samples if different than ORC   |  |
| Owner  |  |
| Certified Laboratory for Microbiological Analyses        |  |
| Date Investigation Completed:                            |  |
| Name of Month(s) and Year of Total Coliform MCL Failure: |  |

### INVESTIGATION DETAILS

| COMMENTS   |  |  |  |  |  |
|--|--|--|--|--|--|
| 1. Inspect each well head for physical defects and report  |  |  |  |  |  |
| a. Is raw water sample tap upstream from point of disinfection?  |  |  |  |  |  |
| b. Is wellhead vent pipe screened?   |  |  |  |  |  |
| c. Is wellhead seal watertight?  |  |  |  |  |  |
| d. Is well head located in pit or is any piping from the wellhead submerged?   |  |  |  |  |  |
| e. Does the ground surface slope towards well head?  |  |  |  |  |  |
| f. Is there evidence of standing water near the wellhead?  |  |  |  |  |  |
| g. Are there any connections to the raw water piping that could be cross connections? (describe all connections in comments) |  |  |  |  |  |
| h. Is the wellhead secured to prevent unauthorized access?   |  |  |  |  |  |
| i. To what treatment plant (name) does this well pump?   |  |  |  |  |  |
| j. How often do you take a raw water total coliform (TC) test?   |  |  |  |  |  |
| k. Provide the date and result of the last TC test at this location  |  |  |  |  |  |

### SYSTEM RESPONSES

|   |  |
|---|--|
| 1. What is the minimum pressure you are maintaining in the distribution system?   |  |
| 2. Did pressure in the distribution system drop to less than 5 psi prior to experiencing the TCR positive finding?  |  |
| 3. Has the distribution system been worked on within the last week? (service taps, hydrant flushing, main breaks, main extensions, etc.) If yes, provide details. |  |

# POSITIVE TOTAL COLIFORM INVESTIGATION

Page 2 of 3

| DISTRIBUTION SYSTEM   | SYSTEM RESPONSES |
|---|------------------|
| 4. Are there any signs of excavations near your distribution system not under the direct control of your maintenance staff? |                  |
| 5. Did you inspect your distribution system to check for mainline leaks? Do you or did you have a mainline leak?            |                  |
| 6. If there was a mainline leak, when was it repaired?  |                  |
| 7. On what date was the distribution system last flushed?   |                  |
| 8. Is there a written flushing procedure you can provide for our review?  |                  |
| 9. Do you have an active cross connection control program?  |                  |
| 10. What is name and phone number of your Cross-Connection Control Program Coordinator?                                     |                  |
| 11. Is the review and testing of backflow prevention devices current?   |                  |
| 12. On what date was the last physical survey of the system done to identify cross-connections?                             |                  |

| SAMPLE SITE EVALUATION (Complete for all TC+ or EC+ findings)  | Routine Site<br>TC+ or EC+ | Upstream Site | Downstream<br>Site | Sample 4<br>(specify) |
|--|----------------------------|---------------|--------------------|-----------------------|
| 1. What is the height of the sample tap above grade? (inches)  |                            |               |                    |                       |
| 2. Is the sample tap located in an exterior location or is it protected by an enclosure?   |                            |               |                    |                       |
| 3. Is the sample tap threaded, have a swing arm (kitchen sink) or aerator (sinks)?   |                            |               |                    |                       |
| 4. Is the sample tap in good condition, free of leaks around the stem or packing?  |                            |               |                    |                       |
| 5. Can the sample tap be adjusted to the point where a good laminar flow can be achieved without excessive splash?                           |                            |               |                    |                       |
| 6. Is the sample tap and area around the sample tap clean and dry (free of animal droppings, other contaminants or spray irrigation systems) |                            |               |                    |                       |
| 7. Is the area around the sample tap free of excessive vegetation or other impediments to sample collection?                                 |                            |               |                    |                       |
| 8. Describe how the tap was treated in preparation for sample collection (ran water, swabbed with disinfectant, flamed, etc.)                |                            |               |                    |                       |
| 9. Is this sample tap designated on the sampling plan submitted with this information request?   |                            |               |                    |                       |
| 10. What were the weather conditions at the time of the positive sample (rainy, windy, sunny),   |                            |               |                    |                       |
|  |                            |               |                    |                       |
|  |                            |               |                    |                       |
|  |                            |               |                    |                       |

|                     |          |
|---------------------|----------|
| GENERAL OPERATIONS: | Response |
|---------------------|----------|

## POSITIVE TOTAL COLIFORM INVESTIGATION

Page 3 of 3

|   |  |
|---|--|
| 1. Where there any power outages that affected water system facilities during the 30 days prior to the TC+ or EC + findings?                                |  |
| 2. Where there any main breaks, water outages, or low pressure reported in the service area where TC+ or EC+ samples were located.                          |  |
| 3. Does the system have backup power or elevated storage?   |  |
| 4. During or soon after bacteriological quality problems, did you receive any complaints of any customers' illness suspected of being waterborne? How many? |  |
| 5. What were the symptoms of illness if you received complaints about customers being sick?   |  |
|   |  |
|   |  |

## ADDITIONAL INFORMATION TO BE SUBMITTED WITH RESPONSES TO THE ABOVE QUESTIONS

1. **Sketch** of System showing all sources, treatment locations, storage tanks, microbiological sampling sites and general layout of the distribution system including the location of all hazardous connections such as the wastewater treatment facility.
2. A set of photographs of the well, pressure tanks, and storage tanks in the system may be submitted if they would show that the contamination is directly related and changes have been made since the last inspection by our Department
3. Name, certification level and certificate number of the Operator in Responsible Charge.
4. Copy of the last cross connection survey performed that identifies the location of all unprotected cross connections.

**SUMMARY:** BASED ON THE RESULTS OF YOUR INVESTIGATION AND ANY OTHER INFORMATION AT YOUR DISPOSAL, WHAT DO YOU BELIEVE TO BE THE CAUSE OF THE POSITIVE TOTAL COLIFORM SAMPLES FROM YOUR PUBLIC WATER SYSTEM?

**CERTIFICATION:** I CERTIFY THAT THE INFORMATION SUBMITTED IN RESPONSE TO THE QUESTIONS ABOVE IS ACCURATE TO THE BEST OF MY PROFESSIONAL KNOWLEDGE

NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_